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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/846,280	05/02/2001	Bahadir Erimli	F0683	3825

45114 7590 10/27/2004

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EXAMINER

HSU, ALPUS

ART UNIT	PAPER NUMBER
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2665

DATE MAILED: 10/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/846,280

Applicant(s)

ERIMLI ET AL.

Examiner

Alpus H. Hsu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 8-14, 16 and 17 is/are rejected.
- 7) ☒ Claim(s) 6, 7, 15, 18 and 19 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-5, 8-14, 16 and 17 are rejected under 35 U.S.C. 102(a) as being anticipated by CRAYFORD et al. in U.S. Patent No. 6,084,878.

Referring to claim 1, CRAYFORD et al. disclose a system for determining forwarding information for a data frame received by a network device, comprising: a plurality of input ports (60, 62) configured to receive a plurality of data frames; queuing logic (64s) configured to transfer at least some of the received data frames to an external memory (34); a forwarding engine (64) configured to generate forwarding information for the received data frames transferred by queuing logic to the external memory; and a port filter (44, 68, 65) configured to store forwarding information for one or more of the received data frames, analyze each of the received data frames to determine whether there is stored forwarding information relating to the received data frame, using the stored forwarding information to forward the received data frame.

Referring to claim 2, CRAYFORD et al. disclose a programmable memory (34).

Referring to claim 3, CRAYFORD et al. disclose a host device (40).

Referring to claims 4 and 5, CRAYFORD et al. disclose comparing a portion of each received data frame to the identifying information in a lookup table (col. 6, lines 36-42).

Referring to claim 8, CRAYFORD et al. disclose the received data frames are related to each other (col. 5, lines 10-15).

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Referring to claim 9, CRAYFORD et al. disclose the data frames exchanged in a point-to-point communication (col. 7, lines 62-64).

Referring to claim 10, CRAYFORD et al. disclose a method for determining forwarding information for a data frame received by a network device, comprising: programming a memory to store forwarding information (col. 5, lines 48-55); receiving a plurality of data frames (col. 5, lines 10-16); analyzing each received data frame to determine whether the received data frame corresponds to one of the data frame (col. 6, lines 25-39); and using the stored forwarding information to forward the received data frame (col. 6, lines 39-43).

Referring to claim 11, CRAYFORD et al. disclose the step of generating forwarding information for the received data frame when the received data frame does not correspond to any data frame (col. 6, lines 36-39).

Referring to claim 12, CRAYFORD et al. disclose the step of storing the forwarding information in the memory by a host device (col. 4, lines 52-60).

Referring to claim 13, CRAYFORD et al. disclose the step of comparing a portion of each received data frame to the identifying information in a lookup table (col. 6, lines 36-42).

Referring to claim 14, CRAYFORD et al. disclose the step of storing the received data frames in an external memory (col. 4, lines 46-51).

Referring to claim 16, CRAYFORD et al. disclose a multiport network device (12), comprising: a memory (34) configured to store forwarding information; a lookup table (col. 6, lines 36-42) to store identifying information relating to the data frames; a plurality of input ports (60, 62) configured to receive a plurality of data frames; queuing logic (64s) configured to transfer at least some of the received data frames to an external memory (34); a forwarding

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engine (64) configured to generate forwarding information for the received data frames transferred by queuing logic to the external memory; and a port filter (44, 68, 65) configured to store forwarding information for one or more of the received data frames, analyze each of the received data frames to determine whether there is stored forwarding information relating to the received data frame, using the stored forwarding information to forward the received data frame.

Referring to claim 17, CRAYFORD et al. disclose a host device (40).

3. Claims 6, 7, 15, 18 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kadambi et al., Egbert et al., Erimli, Chiang et al., Sang et al. and Merchant et al. are all cited to show the common feature of multiport switch for storing and forwarding data frames utilizing queues, control processor and external memory similar to the claimed invention.

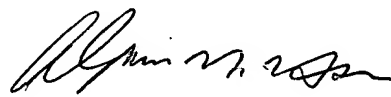
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alpus H. Hsu whose telephone number is (571)272-3146. The examiner can normally be reached on M-F (5:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AHH



Alpus H. Hsu
Primary Examiner
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